

**Abstract:**

15 The invention relates to a rapid prototyping apparatus for the manufacturing of three dimensional objects by additive treatment of cross sections comprising a wholly or partially light-sensitive material (2), said apparatus comprising at least one light source for illumination of a cross section of the light-sensitive material (2) by at least one spatial light modulator of individually controllable light modulators, wherein at least one light source is optically coupled with a plurality of light guides (8) arranged with respect to the spatial light modulator arrangement in such a manner that each light guide (8) illuminates a sub-area of the cross section.

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According to the invention, it is possible to obtain a significant simplification of an RP design system, just as the apparatuses designed are essentially capable of creating prototypes of any size, according to the invention.

15 (Figure 2)